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Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/210,557

08/12/99

ECKER

D

1999-0012

HM22/1115

PAUL K LEGAARD  
MOODOCK WASHBURN KURTZ  
MACKIEWICZ & NORRIS LLP  
ONE LIBERTY PLACE 46TH FLOOR  
PHILADELPHIA PA 19103

EXAMINER

LU, F

ART UNIT

PAPER NUMBER

1655

11

DATE MAILED:

11/15/00

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DEA/FCE-1894

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
09/310,667	5/12/1999	Ecker et al.,	IBIS-0012

EXAMINER	
Frank Lu	
ART UNIT	PAPER NUMBER
1655	11

DATE MAILED:

**Please find below a communication from the EXAMINER in charge of this application**

Commissioner of Patents

The reply filed on 8/11/2000 is not fully responsive to the prior Office Action because the application still fails to comply with the sequence rules as set forth with "Notice To Comply " and /or the "Raw Sequencing Listing Error Report ". Since the period for reply set forth in the prior Office action has expired, this application will become abandoned unless applicant corrects the deficiency and obtains an extension of time under 37 CFR 1.136(a).

The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. In no case may an applicant reply outside the SIX (6) MONTH statutory period or obtain an extension for more than FIVE (5) MONTHS beyond the date for reply set forth in an Office action. A fully responsive reply must be timely filed to avoid abandonment of this application.

Enclosures:

- (1) Notice To Comply
- (2) Raw Sequencing Listing Error Report

*B. L. Sisson*

BRADLEY L. SISSON  
PRIMARY EXAMINER

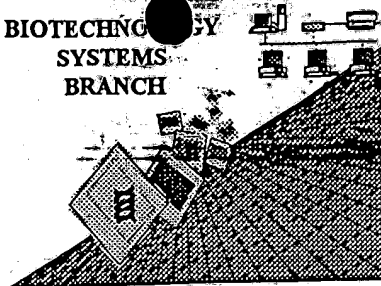
GROUP 1800 1650

11/17/00

N

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



#109

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/310,667

Source: 1655

Date Processed by STIC: 8-18-00

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

**Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

RECEIVED  
AUG 31 2000  
TECH CENTER 10002000

1655

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/310,667DATE: 08/18/2000  
TIME: 12:44:44Input Set : A:\Ibis0012.app  
Output Set: N:\CRF3\08182000\I310667.rawDoes Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Ecker, David J  
4     Sampath, Ranga  
5     Griffey, Richard  
6     McNeil, John  
8 <120> TITLE OF INVENTION: Identification of Molecular Interaction Sites in RNA  
9     for Novel Drug Discovery  
11 <130> FILE REFERENCE: IBIS0012  
13 <140> CURRENT APPLICATION NUMBER: 09/310,667  
14 <141> CURRENT FILING DATE: 1999-05-12  
16 <150> PRIOR APPLICATION NUMBER: 09/076,440  
17 <151> PRIOR FILING DATE: 1998-05-12  
19 <150> PRIOR APPLICATION NUMBER: 60/085,092  
20 <151> PRIOR FILING DATE: 1998-05-12  
22 <160> NUMBER OF SEQ ID NOS: 315  
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See pp. 2, 3, 5

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/310,667

DATE: 08/18/2000  
TIME: 12:44:44

Input Set : A:\Ibis0012.app  
Output Set : N:\CRF3\08182000\I310667.raw

RECEIVED  
AUG 31 2000  
TECH CENTER 1809/2888

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141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: (17)

```

"n" cannot represent "+"  
in an RNA sequence, unless  
it is a mixed sequence.  
As per the sequence rules,  
in the case of a mixed  
sequence, the type shall  
be labelled DNA.

Page 3  
RECEIVED  
JUG 31 2000  
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/310,667

DATE: 08/18/2000  
TIME: 12:44:44

Input Set : A:\Ibis0012.app  
Output Set: N:\CRF3\08182000\I310667.raw

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214 <210> SEQ ID NO: 15  
215 <211> LENGTH: 36

} same error  
refer to previous page

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/310,667  
 DATE: 08/18/2000  
 TIME: 12:44:44

Input Set : A:\Ibis0012.app  
 Output Set: N:\CRF3\08182000\I310667.raw

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287 <211> LENGTH: 34
288 <212> TYPE: DNA

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/310,667

DATE: 08/18/2000  
 TIME: 12:44:44

Input Set : A:\Ibis0012.app  
 Output Set: N:\CRF3\08182000\I310667.raw

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352 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
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358 <210> SEQ ID NO: 27
359 <211> LENGTH: 34
360 <212> TYPE: DNA
361 <213> ORGANISM: Artificial Sequence

```

← F.Y.I.

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/310,667

DATE: 08/18/2000

TIME: 12:44:45

Input Set : A:\Ibis0012.app

Output Set: N:\CRF3\08182000\I310667.raw

L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71  
L:1319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98  
L:1514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112  
L:1515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112  
L:1629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119  
L:1630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119  
L:1727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126  
L:1836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133  
L:1955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140  
L:2192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156  
L:2249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157  
L:2487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176  
L:2761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:193  
L:2762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:193  
L:2909 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204  
L:2938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206  
L:3003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:211  
L:3092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:218  
L:3168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:221  
L:3185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222  
L:3334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234  
L:3499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244  
L:3600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:252  
L:3617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:253  
L:3634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:254  
L:3651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255  
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L:3767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:263  
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L:4036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280  
L:4065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:282  
L:4082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:283  
L:4099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284  
L:4128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:286  
L:4145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/310,667

DATE: 08/18/2000  
TIME: 12:44:45

Input Set : A:\Ibis0012.app  
Output Set: N:\CRF3\08182000\I310667.raw

L:4174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:289  
L:4191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING  
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 CFR 1.821-1.825. Applicant's attention is directed to these regulations, published at 114 OC 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e).
- ☐ 7. Other: \_\_\_\_\_

**Applicant must provide:**

- ☐ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing"
- ☐ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification
- ☐ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d)

For questions regarding compliance with these requirements, please contact

For Rules Interpretation, call (703) 308-1123  
For CRF submission help, call (703) 308-4212  
For PatentIn software help, call (703) 557-0400

Please return a copy of this notice with your response.